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Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

2 Dimension-independent modeling with simplicial complexes
A. Paoluzzi, F. Bernardini, C. Cattani, V. Ferrucci
January 1993 **ACM Transactions on Graphics (TOG)**, Volume 12 Issue 1
Full text available: pdf(4.91 MB) Additional Information: full citation, references, citings, index terms, review

3 Machine interpretation of CAD data for manufacturing applications
Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3
Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

4 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
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Jiří Matoušek
December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract, references, citings, index terms, review

6 Realm-based spatial data types: the ROSE algebra
Ralf Hartmut Güting, Markus Schneider
April 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 2
Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings

7 Motion planning in the presence of moving obstacles
John Reif, Micha Sharir
July 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 4
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8 Object representation by means of nonminimal division quadtrees and octrees
D. Ayala, P. Brunet, R. Juan, I. Navazo
January 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 1
Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms, review

9 Unified geometric modeling by non-manifold shell operation
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[10] Geometric modelling and display primitives towards specialised hardware
A. L. Thomas
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[12] Lower bounds for parallel linear programming and other problems
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[13] Querying spatial databases via topological invariants
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Hanan Samet
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[15] On the power of one-way communication
Jik H. Chang, Oscar H. Ibarra, Anastasios Vergis
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[16] Special issue on spatial database systems: Management of multidimensional discrete data
Peter Baumann
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Oliver G. Staadt, Markus H. Gross, Roger Weber
October 1997 **Proceedings of the 8th conference on Visualization '97**
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[18] An expressive language for linear spatial database queries
Luc Vandeurzen, Marc Gyssens, Dirk Van Gucht
May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Full text available: pdf(1.44 MB) Additional Information: full citation, references, citings, index terms

[19] The VLSI Complexity of Selected Graph Problems
Joseph Já Já
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4 Hierarchical triangulation for multiresolution surface description
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6 Distance browsing in spatial databases
Gísli R. Hjaltason, Hanan Samet
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7 Strip trees: a hierarchical representation for curves
Dana H. Ballard
May 1981 **Communications of the ACM**, Volume 24 Issue 5
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Jiří Matoušek
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9 Special issue on spatial database systems: Management of multidimensional discrete data
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October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4
Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, citings

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Oliver G. Staadt, Markus H. Gross, Roger Weber
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ctrgate.kaist.ac.kr/~wksong/pub/./seal96/seal96.ps.gz

Efficient representations and techniques for computing.. - Krishnan, Manocha (1996) (Correct) (3 citations)
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calculus of operations that generalizes standard **boolean** operations on shapes such as union, us information about the topology of the collision **region** between the barrier and the robot (its in two dimensions. They augmented the standard **boundary** representation of planar shapes via polygons or
robotics.stanford.edu/~ramkumar/papers/3d-conv.ps.gz

Ontologies for Plane, Polygonal Mereotopology - Pratt, Lemon (1997) (Correct) (3 citations)
plane to be polygons. It turns out that P forms a **Boolean** algebra. In this **Boolean** algebra, the product of obtained by adopting a spatial ontology in which **regions**, not points, are the primitive entities. This that part of the plane lying outside it and its **boundary** and the sum of two polygons is the polygon
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geometry, 1995 BOOLE: A System to Compute **Boolean** Combinations of Sculptured Solids Shankar are used to partition the patches into different **regions**. Only a few of them are retained after the set are constructive solid geometry (CSG) and **boundary** representations (B-rep)Both these
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www.research.att.com/~krishnas/MY_PAPERS/IFIP96.ps.gz

Formalizing Commonsense Topology: The - Calculus Nicholas Mark (Correct)
other. Next, we establish that if an 1 Quasi-**Boolean** because there is no `zero' **region**. Extent are not: every surface has two sides if two **regions** occupy the same part of space, they include the relations (e.g. partial overlap, contact at the **boundary**) between specific spatially extended entities,
agora.leeds.ac.uk/scs/doc/srg/AIandMsymp.ps

Dimension-Independent BSP (2): Boundary to Interior Mapping - Baldazzi, Paoluzzi (1997) (Correct)
point-set may be implicitly represented as the **B lean** XOR of unbounded polyhedral "stripes" of

is shot from either the interior or the exterior **region**. This result is actually dimension-independent,
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representations of solids, and defined regularized **B lean** operations by merging BSP trees [7]
is associated to a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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From Polyline to Polygon via XOR tree - Baldazzi, Paoluzzi (1996) (Correct)
that each such polygon can be expressed as the **Boolean** XOR of unbounded quadrilateral stripes,
where each leave node is an unbounded plane **region** and each non-leave node is a regularized XOR
and solution "Given a representation of the **boundary** of a plane polygon, compute both an implicit and
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Bijective Dimension-Independent Boundary to Interior.. - Baldazzi, Paoluzzi (1996) (Correct)
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tree represents a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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Surface/surface Intersections: A Three States.. - S. Foufou, J.M. Brun, A.. (Correct)
the first point in the context of solids algebra (**Boolean** operators) for which it is of utmost importance
by Sederberg and Nishita [SN90] and defined as the **region** between two parallel lines which bounds a B'ezier
fuzzy face, a fuzzy line is calculated for each **boundary** curve of the surface. A fuzzy face (figure 3) is
bat710.univ-lyon1.fr/~foufou/papers_ps/london.ps.Z

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Querying Spatial Databases via Topological Invariants - Segoufin, Vianu (1998) (Correct) (8 citations)
of two sets, interior, exterior, **boundary**, and **Boolean** connectives. The 4-**intersection** invariant was
ptime queries on topological invariants if the **regions** are connected, fixpoint expresses all ptime
disjointness of two sets, interior, exterior, **boundary**, and **Boolean** connectives. The 4-**intersection**
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Discrete Ray Tracing - Yagel, Cohen, Kaufman (1992) (Correct) (7 citations)
approach delays the com utation of the **Boolean** operations until the rendering stage. However,
consists of a list of all objects residing in that **region** of the world while a voxel t maintains
achieved b onverting the CSG-tree into a **boundary** representation (B-rep) in an extremely time -p
www.cis.ohio-state.edu/volviz/Papers/1992/rrt.ps.gz

Space Decompositions: Theory and Practice - Paulo Cezar Pinto (Correct)
partition. It is easy to see that L is a finite **Boolean** Algebra under the usual set operations [and
is, one that has the minimum number of decomposing **regions**. The existence of a minimal decomposition might
of the topology of each decomposing **region**. **Boundary** condition. **Boundary** conditions are imposed in
www.visgraf.impa.br/RefBib/Data/PS_PDF/luizvelho92/ms92sd.ps.gz

Topological Operations Transparent for Users - Winter (2000) (Correct)
language for CORBA (OMG 1999)such as: **Boolean** touches (in Geometry other)This interface of
model, the topological relation touch between two **regions** is defined by intersecting boundaries, with no
model without a concept of a (one-dimensional) **boundary**, which does not exist explicitly in raster
ftp.geoinfo.tuwien.ac.at/winter/winter00transparent.pdf

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representations of solids, and defined regularized **Boolean** operations by merging BSP trees [7]
is associated to a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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that each such polygon can be expressed as the **Boolean** XOR of unbounded quadrilateral stripes,
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Roma, Italy. Bijective Dimension-Independent **Boundary** to Interior Mapping with BSP Trees Claudio
www.inf.uniroma3.it/research/tech-rep/inf-17-96.ps

Efficient Rendering of Trimmed NURBS Surfaces - Kumar, Manocha (1995) (Correct)
obtained after surface **intersection** or other **boolean** operations. The problem of rendering curved
traces the trimming curves to compute the trimmed **regions** of each **cell**. This is based on tracing trimming
NURBS, trimming curves, B'ezier surface, CSG, **B undary** Representation, Trimming Curves, Tessellation.
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*Antony, R.T.;*
Proceedings of the IEEE ,Volume: 85 , Issue: 1 , Jan. 1997
Pages:39 - 53

[Abstract] [PDF Full-Text (296KB)] IEEE JNL

2 **An adaptive threshold strategy for soft decision Viterbi decoding**
*Antony, R.; Ilow, J.;*
Electrical and Computer Engineering, 2003. IEEE CCECE 2003. Canadian Conference on ,Volume: 3 , 4-7 May 2003
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*Kahng, A.B.; Robins, G.; Singh, A.; Zelikovsky, A.;*
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 18 , Issue: 4 , April 1999
Pages:445 - 462

[Abstract] [PDF Full-Text (760 KB)] IEEE JNL

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2 **The segmentation of cursive handwriting: an approach based on off-line recovery of the motor-temporal information**
*Plamondon, R.; Privitera, C.M.;*
Image Processing, IEEE Transactions on , Volume: 8 , Issue: 1 , Jan. 1999
Pages:80 - 91

[Abstract] [PDF Full-Text (268 KB)] IEEE JNL

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3 **Efficient extra material critical area algorithms**
*Allan, G.A.; Walton, A.J.;*
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 18 , Issue: 10 , Oct. 1999
Pages:1480 - 1486

[Abstract] [PDF Full-Text (488 KB)] IEEE JNL

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4 **Accessibility analysis for planning of dimensional inspection with coordinate measuring machines**
*Spitz, S.N.; Spyridi, A.J.; Requicha, A.G.;*
Robotics and Automation, IEEE Transactions on , Volume: 15 , Issue: 4 , Aug. 1999
Pages:714 - 727

[Abstract] [PDF Full-Text (656 KB)] IEEE JNL

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5 **Anatomical model matching with fuzzy implicit surfaces for segmentation of thoracic volume scans**
*Lelieveldt, B.P.F.; van der Geest, R.J.; Ramze Rezaee, M.; Bosch, J.G.; Reiber, J.H.C.;*
Medical Imaging, IEEE Transactions on , Volume: 18 , Issue: 3 , March 1999
Pages:218 - 230

[Abstract] [PDF Full-Text (1072 KB)] IEEE JNL

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6 **IEEE standard for information techn l gy - POSIX(R) Ada language interfaces - part 1: binding for system Application Program Interface (API) - amendment 2: protocol-independent interfaces**

IEEE Std 1003.5, 1999 Edition , 3 Dec. 1999
[Abstract] [PDF Full-Text (4440 KB)] IEEE STD

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*Stuller, J.A.; Shah, R.;*
Image Processing, IEEE Transactions on , Volume: 7 , Issue: 9 , Sept. 1998
Pages:1300 - 1310

[Abstract] [PDF Full-Text (800 KB)] IEEE JNL

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*Chen, H.-F.S.; Lee, D.T.;*
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Pages:406 - 418

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*Young, S.; Downs, T.;*
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[Abstract] [PDF Full-Text (216 KB)] IEEE JNL

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*Snyder, W.C.; Zhengming Wan;*
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*Kulkarni, S.R.; Lugosi, G.; Venkatesh, S.S.;*
Information Theory, IEEE Transactions on , Volume: 44 , Issue: 6 , Oct. 1998
Pages:2178 - 2206

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13 **Information technology - telecommunications and information exchange between systems - local and metropolitan area networks - specific requirements. Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications**

IEEE Std 802.3, 1998 Edition , 28 Sept. 1998
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14 **An adaptive neural fuzzy filter and its applications**
*Chin-Teng Lin; Chia-Feng Juang;*
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 27 , Issue: 4 , Aug. 1997
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15 **Optical components for WDM lightwave networks**
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Pages:1274 - 1307

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16 **Morphological filters--Part I: Their set-theoretic analysis and relations to linear shift-invariant filters**
*Maragos, P.; Schafer, R.;*
Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 35 , Issue: 8 , Aug 1987
Pages:1153 - 1169

[Abstract] [PDF Full-Text (1936 KB)] IEEE JNL

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*Maragos, P.; Schafer, R.;*
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Pages:1170 - 1184

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18 **Representation of geometric features, tolerances, and attributes in solid modelers based on constructive geometry**
*Requicha, A.; Chan, S.;*
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Pages:156 - 166

[Abstract] [PDF Full-Text (1144 KB)] IEEE JNL

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19 **Morphological skeleton representation and coding of binary images**
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Pages:1228 - 1244

[Abstract] [PDF Full-Text (2048 KB)] IEEE JNL

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20 **Rectangular parallelepiped coding: A volumetric representation of three-dimensional objects**
*Yeon Kim; Aggarwal, J.;*
Robotics and Automation, IEEE Journal of [legacy, pre - 1988] , Volume: 2 , Issue: 3 , Sep 1986
Pages:127 - 134

[Abstract] [PDF Full-Text (736 KB)] IEEE JNL

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21 **Computational complexity of art gallery problems**
*Lee, D.; Lin, A.;*
Information Theory, IEEE Transactions on , Volume: 32 , Issue: 2 , Mar 1986
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